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L3 port same OSD same switch\$36 L3

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L2 port same OSD same switch\$358 L2L1 710/305,313,316,317,105,33,36;709/216,220,230,250,226;370/351,357,362,386,399;714/4.ccls. 16046 L1

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2	<input type="checkbox"/>	<input type="checkbox"/>	B2					348/569
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6957287	20051018	10	Asynchronous/synchronou	710/72	710/10;
3	<input type="checkbox"/>	<input type="checkbox"/>	B2			s KVMP switch for conso		710/16
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6928118	20050809	15	Device and method for	375/240.21	375/240.2
4	<input type="checkbox"/>	<input type="checkbox"/>	B1			displaying video		
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6765543	20040720	33	Display	345/1.1	345/156;
5	<input type="checkbox"/>	<input type="checkbox"/>	B1					345/213;
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6691188	20040210	13	Method of matching	710/62	710/72
6	<input type="checkbox"/>	<input type="checkbox"/>	B2			cables and monitor for		
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6671756	20031230	26	KVM switch having a	710/73	710/220;
7	<input type="checkbox"/>	<input type="checkbox"/>	B1			uniprocessor that accom		710/62
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6639793	20031028	9	Video/audio module for	361/686	248/346.0
8	<input type="checkbox"/>	<input type="checkbox"/>	B2			a flat-panel displav		
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6557170	20030429	14	Keyboard, mouse, video	725/130	345/168;
9	<input type="checkbox"/>	<input type="checkbox"/>	B1			and power switching app		710/72;
9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6367080	20020402	48	Internet information	725/112	348/564;
10	<input type="checkbox"/>	<input type="checkbox"/>	B1			displaying apparatus		348/565;
10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6219072	20010417	14	Microcomputer with a	345/531	345/551;
11	<input type="checkbox"/>	<input type="checkbox"/>	B1			built in character disp		348/563;
11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6201537	20010313	16	Sound control circuit	715/716	345/14;



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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

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Dynamic Switching between One-to-Many Download Methods in "All-IP" Cellular Networks

Holand, O. Achyami, A.H.
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This paper appears in: **Mobile Computing, IEEE Transactions on**

Publication Date: May-June 2006

Volume: 5, Issue: 3

On page(s): 274 - 287

ISSN: 1536-1233

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Abstract

To facilitate upgrades to software, firmware, or FPGA functionality in terminals, over-the-air downloads can provide in-the-field solutions. For mobile terminals, over-the-air downloads provide a security-conscious option due to the ubiquitous availability of the radio interface as they guarantee that the upgrade will be performed if the terminal is to be allowed to use the operator's network. Ensuring system stability through urgent upgrades, this provides a degree of certainty which has hitherto not been present in other forms of downloads. In this paper, we concentrate on mass-upgrades, as might apply to an OS, codec, or urgent security upgrade in a number of terminals concurrently. We investigate relative performances of a range of one-to-many reliable data transfer techniques. Based on these performances, we introduce a unified protocol, able to dynamically switch between the one-to-many download methods many-unicast, multicast, and broadcast during a file download, thereby achieving enhanced performance of the mass-upgrade download from both user and system perspectives, as well as from the perspectives of other users in the network, which have to share the same resources as the one-to-many download.

Index Terms

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Mobile communication systems multicast protocol architecture support services.

Author Keywords

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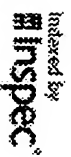
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